CN Beam

BRIEF PASSENGER CAR DATA —1954—



ETHYL CORPORATION



BRIEF PASSENGER CAR DATA

1954

ETHYL CORPORATION

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TABLE OF CONTENTS

	-50
Notice Page and General Notes	5
List of Abbreviations	6
Summary of Characteristics	7
Buick	8
Buick	9
Cadillac	10
Chevrolet	11
Chrysler	12
Chrysler	13
DeSoto	14
Dodge	15
Ford	16
Henry J	17
Hudson	18
Hudson	19
Kaiser	20
Lincoln-Mercury	21
Spark Plug Chart	22
Spark Plug Chart	23
Nash	24
Nash	25
Oldsmobile	26
Plymouth	27
Packard	28
Packard	29
Pontiac	30
Studebaker	31
Willys	32
Antifreeze Chart	33
Automatic Transmissions	34
Automatic Transmissions	35
Trend in Antiknock Quality, Regular Gasoline	36
Trend in Antiknock Quality, Premium Gasoline	37
Tende in American Personne Con Paris - Design	20

NOTICE

The specifications and adjustments contained in this booklet have been compiled by the Technical Service Division of the Research Laboratories of the Ethyl Corporation from information supplied by manufacturers of motor cars, ignition apparatus, spark plugs, etc. None of this information represents the results of tests at the Research Laboratories of the Ethyl Corporation.

This information covers the essential characteristics, in ready reference form, of the 1954 passenger car models. It is correct at date of publication, but changes may be made from time to time by motor car manufacturers.

Data on horsepower, torque, compression pressure, etc., are that given by the manufacturer. Methods and technique of testing differ in various engineering departments, so these data are frequently not comparable for different makes of cars.

GENERAL NOTES

Valves

Valve tappet clearances are extremely important. Frequent checking of valve tappet clearances will add materially to the proper functioning and long life of valves. Clearances given on the specification sheets are for normal driving conditions. For heavy duty, such as heavy loads or high speed, it may be desirable to give additional clearance.

Spark Plugs

The spark plug installed and recommended by the factory is shown first in the specifications with the corresponding AC, Auto-Lite or Champion spark plug shown as an alternate. These plugs are designed for average driving conditions. For heavy duty or high speed driving, it may be necessary to use a colder plug in order to obtain satisfactory spark plug life. The necessity for a colder plug is indicated by rapid electrode wear and, in extreme cases, splitting and cracking away of the insulator.

It is sometimes necessary to change to a plug which is hotter than the factory equipment plug for very light service, especially in metropolitan areas. If an engine is not pumping oil and the ignition system is in good condition but the spark plug consistently fouls with excessive carbon deposit—the need for a hotter plug is indicated.

Periodic cleaning of spark plugs by means of an efficient spark plug cleaner is often advantageous.

Spark plug gaps should be set and maintained at factory setting. Pitted breaker points should be cleaned and, if badly pitted, replaced. Incorrectly set breaker points will affect ignition timing and ignition output.

Ignition Timing

Ignition timing is given in crankshaft degrees and is factory setting. Almost all distributors are provided with some type of adjustment enabling the ignition timing to be reset without disturbing the calibration of the distributor advance mechanism. Retarded ignition timing will eliminate or reduce detonation but will result in decreased performance and fuel economy. Also, in most cases, an ignition setting somewhat in advance of the factory setting will result in additional performance and economy, although such an ignition setting will require a fuel of higher antiknock value than the standard setting.

Carburetors

Carburetors should not be adjusted or jets changed except by qualified mechanics. Correct fuel (or float) levels are extremely important to satisfactory performance and fuel economy-factory specifications should be strictly maintained.

Brief Passenger Car Data for 1954

February 15, 1954

LIST OF ABBREVIATIONS

ΔΔ	Aluminum Alloy (cylinder heads & pistons)
AC	AC Spark Plug Division, GMC
AI	
AL	The Electric Auto-Lite Company
AMA	Automobile Manufacturers Association
ATC	After Top Center
BTC	
Bmep	
0	
Centrif	
Champ	
Clr	
COMP Press	
DD	/
Deg	
Dup	
Eaton	Eaton Mfg. Company (valves)
Eng	
Eqpt	
P	
H	
HP	
Нур	Hypoid (rear axle gearing)
Hyd Lifters	
I	
Int	
L	
Max Mech Lifters	
No. Cyl	
OD	And the state of t
Recm Press	
	Rich Manufacturing Company (valves)
RP	
RE	
RU	
SB	
SD	
Sg1	
Std	
Strom	
TDC	
TP	
Voc	Vacuum

SUMMARY OF CHARACTERISTICS

1954 UNITED STATES PASSENGER CARS

Number of Makes	1953	1954	Change
Number of Models	54	55	+1
ENGINE CHARACTERISTICS:			
Average Standard Compression Ratio	7.44	7.64	+0.20
Average Optional Higher Compression Ratio	7.37	7.60	+0.23
No. of Optional Higher Compression Ratios	9	5	-4
Highest Standard Compression Ratio	8.50	8.70	+0.20
Lowest Standard Compression Ratio	6.70	6.80	+0.10
Highest Optional Compression Ratio	8.00	8.00	****
Average Displacement, Cubic Inches	256.6	267.1	+10.5
Average Maximum Brake Horsepower	133.0	150.8	+17.8
Average RPM at Maximum Horsepower	3861	4015	+154
Average Horsepower Per Cubic Inch	0.512	0.555	+0.043
Average Brake Mean Effective Pressure, PSI	130.7	133.7	+3.0
Maximum Horsepower Per Cubic Inch	0.634	0.709	+0.075
Minimum Horsepower Per Cubic Inch	0.438	0.449	+0.011
Average lb/HP—6 Passenger Sedan	27.06	24.88	-2.18
Rated Horsepower With Standard Compression Ratio:			
		mber of M	lodels
Under 75	1	1	
75-99	7	5	-2
100-149	28	21	-7
150-199	14	15	+1
200-250	4	11	+7
Piston Materials:	Min	mber of N	fodele
Aluminum Allan	53	53	
Aluminum Alloy		2	
Cast Iron or Steel Alloy	1	4	+1

BUICK

CAR MODEL	Special Series 40 Syncromesh	Special Series 40 Dynaflow	Century Series 60 Dynaflow and Syncromesh
ENGINE	- Julian Cont	D y tittino	-
No. Cyl-Head Type	17-0-T	V-8-I	V-8-I
Bore and Stroke (in)		3.625x3.20	4.00x3.20
Displacement (cu in)	3.02033.20	264	322
AMA Horsepower		42.05	51.2
Max Horsepower @ rpm	143 @ 4200	150 @ 4200	200 @ 4100(1)
Max Torque, lb-ft @ rpm		240 @ 2400	309 @ 2400(1)
Max bmep, lb/sq in		137.1	144,7(1)
Head Material	Cost Tron	Cast Iron	Cast Iron
Compression Ratio	7 2	8.1	8.5(1)
Piston Material		AA	AA
Bearing Material	An S	teel Backed Dure	
IGNITION		reer amounted about	
	AC 44 E	AC ME	AC 44-5
Spark Plug—Factory Eqpt	AU 44-5	AC 44-5 mpion J-8, AL A5	
Spark Plug Gap	Unar	.030" to .035"	or and
Breaker Gap		.0125" to .0175	
Cam Angle		.0125 00 .0115	
Firing Order		1-2-7-8-4-5-6-3	
Timing—Crankshaft Degrees	5º PTC	5° BTC	5° BTC
Adv Deg-Centrif-Vac	24-21	24-21	24-21
Adv Begins—Ends—Eng rpm		600-3500	600-3500
Battery-Volts, Terminal Ground	19 Negative		12. Negative
	10, IVERGILIVE	16, Negative	is, regaine
VALVES	Washing 0140	TT1 8140	Wastern State
Make and MaterialInt			
		arlous 21-4NS or	
Tappet Clr—Seat AngleInt		Hydraulic Lifters Hydraulic Lifters	469
Exhaust Seat Inserts	Mone	None None	None
	Mone	None	MOHE
CARBURETOR	101	101	763
Make, Model	(2)	(2)	(3)
Type	Dual DD	Dual DD	4 Barrel DD
Float Level	Automotio	(4)	
Choke Control	Automatic	Automatic	Automatic
CAPACITY	-		2 40
Oil(qt)		6 refill	6 refill
Water(qt)	16.5(6)	18.5(6)	(7)
Transmission(pt)		20	(8)
Rear Axle(pt)		4-1/2	4-1/2
Gasoline(gal)		19	19
GENERAL DATA (Four-Door Se	dan)		
Wheelbase(in)	122	122	122
	166		
Over All Lgth Incl Bumpers (in)	206.3	206.3	206.3
Over All Lgth Incl Bumpers (in) Shipping Weight(lb)	206.3 3714	206.3 3816	206.3 3786(9)
Over All Lgth Incl Bumpers (in) Shipping Weight	206.3 3714		3786(9)
Over All Lgth Incl Bumpers (in) Shipping Weight(lb)	206.3 3714	3816	

(1) Data given for Dynaflow equipped cars-with Syncromesh transmission compression is 8.0; max HP, 195 @ 4100; max torque, 302 @ 2400; max BMEP, 141.4.

(2) Stromberg AAVB-267 or Carter WCD.
(3) Stromberg 4 AUVB-267 or Carter WCFB.
(4) Stromberg: 5/64" above ends of gauge T-24971 to bottom edge of float.
Carter: cover flange to float 15/64".

(5) Stromberg: air horn gasket to float, primary 5/64"; secondary 1/16".

Carter: cover flange to float, primary 1/8"; secondary 3/16".

(6) 1-1/2 quart additional with heater.

(7) 16-1/2 quarts with Syncromesh transmission—18-1/2 quarts with Dynaflow. Heater requires 1-1/2 quart additional.

(8) 2-1/2 pints for Syncromesh—Dynaflow requires 10 quarts.
(9) 3888 with Dynaflow.
(10) 3.4 with Dynaflow.

0	CAR MODEL	Super Series 50 Syncromesh	Super Series 50 Dynaflow	Roadmaster Series 70 Dynaflow
1	ENGINE	wy mor officeri	ED J LINE LO W	
)	No. Cyl-Head Type Bore and Stroke (in) Displacement (cu in) AMA Horsepower Max Horsepower @ rpm Max Torque, lb-ft @ rpm Max bmep, lb/sq in Head Material Compression Ratio Piston Material Bearing Material	4.00x3.20 322 51.2 1177 @ 4100 295 @ 2000 138.2 Cast Iron 8.0	182 @ 4100 300 @ 2000 140.6	V-8-I 4.00x3.20 322 51.2 200 @ 4100 309 @ 2400 144.7 Cast Iron 8.5 AA
	IGNITION			
	Spark Plug—Factory Eqpt Alternate Spark Plug Gap Breaker Gap	Cham	AC 44-5 pion J-8, AL A5 .030" to .035" .0125" to .0175	
)	Cam Angle Firing Order Timing—Crankshaft Degrees Adv Deg—Centrif—Vac Adv Begins—Ends—Eng rpm Battery—Volts, Terminal Ground	5° BTC 24-21 600-3500		5° BTC 24-21 600-3500 12, Negative
	VALVES Make and MaterialInt Exh Tappet Clr—Seat AngleInt Exh	Varie Hy Hy	Various 3140 ous 21-4NS or draulic Lifters, draulic Lifters,	45°
	Exhaust Seat Inserts	None	None	None
	CARBURETOR Make, Model Type Float Level Choke Control	Dual DD	(1) Dual DD (3) Automatic	(2) 4 Barrel DD (4) Automatic
	CAPACITY (qt) Oil (qt) Water (qt) Transmission (pt) Rear Axle (pt) Gasoline (gal)	16.5(5) 2-1/2 4-1/2		6 refill 18.5(5) 20 4-1/2
	GENERAL DATA (Four-Door Sec Wheelbase (In) Over All Lgth Incl Bumpers (in) Shipping Weight (Ib) Tire Size—Recm Press (Ib) Rear Axle Ratio—Type	ian) 127 216.8 4105 7.60x15-2 3.9 Hyp	127 216.8 4207 4-24 3.4 Hyp	127 216.8 4250 8.00x15-24-24 3.4 Hyp
	LOCATION CHASSIS SERIAL NO	. Left F	ront Door Pilla	r Post
	(1) (1)			

Stromberg AAVB-267 or Carter WCD.
 Stromberg 4AUVB-267 or Carter WCFB.
 Stromberg: 5/64" above ends of gauge T-24971 to bottom edge of float. Carter: cover flange to float 15/64".
 Stromberg: air horn gasket to float, primary 5/64", secondary 1/16".
 Carter: cover flange to float, primary 1/8", secondary 3/16".

(5) 1-1/2 quart additional with heater.

AR MODEL	62	60 Special	75
INGINE			
No. Cyl-Head Type	V-8-I	V-8-I	V-8-T
Bore and Stroke (in)	3-13/16x3-5/8	3-13/16x3-5/8	3-13/16x3-5/8
Displacement (cu in)	331	331	331
AMA Horsepower	46.5	46.5	46.5
Max Horsepower @ rpm	230 @ 4400	230 @ 4400	230 @ 4400
Max Torque, lb-ft @ rpm	330 @ 2700	330 @ 2700	330 @ 2700
Max bmep, lb/sq in	150.2	150.2	150.2
Head Material	Cast Iron	Cast Iron	Cast Iron
Compression Ratio		8.25	8.25
Piston Material		AA	AA
Bearing Material	8	teel Backed Du	
GNITION		ecci Daoned Du	aca.
Spark Plug—Factory Eqpt	AC 46-5	AC 46-5	AC 46-5
Alternate		9 or AR8, Chan	
Spark Plug Gap	.035"	.035"	.035"
Breaker Gap		.016"	.016"
Cam Angle	310 1-1/9	31° ± 1-1/2	31° ± 1-1/2
Firing Order	31 - 1-1/2	-8-4-3-6-5-7-2	31 -1-1/2
Timing-Crankshaft Degrees	2_1/20 DTC	2-1/2°BTC	2-1/2°BTC
Adv Deg-Centrif-Vac	24-1/2-27-1/2	24-1/2-27-1/2	24-1/2-27-1/2
Adv Begins-Ends-Eng rpm	000.4000	900-4000	900-4000
Battery-Volts, Terminal Ground	12 Negotine	10 Nome Have	12. Negative
ALVES	12, Negative	12, Negative	12. Negative
Make and MaterialInt Exh Tappet Cir—Seat AngleInt Exh	Rich H	h 3140 or Eaton 2112N or Eaton ydraulic Lifters ydraulic Lifters	Sil X-10 , 45° , 45°
Exhaust Seat Inserts	None	None	None
Make, Model		CFB 2109S or Re	ochester 4GC
Type			
Type		DD 4 Barrel	T
Float Level	Car Pri. 1/8	". Sec. 3/16": B	P 1-19/32" (1)
Float Level	Car Pri. 1/8	". Sec. 3/16": B	P 1-19/32" (1) Automatic
Float Level Choke Control	Car Pri. 1/8 Automatic	", Sec. 3/16"; R Automatic	Automatic
Float Level Choke Control CAPACITY Oll	Car Pri. 1/8 Automatic	", Sec. 3/16"; R Automatic	Automatic 5 Refill
Float Level	Car Pri. 1/8 Automatic 5 Refill 19-3/4	", Sec. 3/16"; R Automatic 5 Refill 19-3/4	5 Refill 19-3/4
Float Level	Car Pri. 1/8 Automatic 5 Refill 19-3/4	", Sec. 3/16"; F Automatic 5 Refill 19-3/4 22	Automatic 5 Refill 19-3/4 22
Float Level	Car Pri. 1/8 Automatic 5 Refill 19-3/4 22 5	", Sec. 3/16"; R Automatic 5 Refill 19-3/4 22 5	Automatic 5 Refill 19-3/4 22 5
Float Level	Car Pri. 1/8 Automatic 5 Refill 19-3/4 22 5 20	", Sec. 3/16"; F Automatic 5 Refill 19-3/4 22	Automatic 5 Refill 19-3/4 22
Float Level	Car Pri. 1/8 Automatic 5 Refill 19-3/4 22 5 20	", Sec. 3/16"; R Automatic 5 Refill 19-3/4 22 5	Automatic 5 Refill 19-3/4 22 5
Float Level	Car Pri. 1/8 Automatic 5 Refill 19-3/4 22 5 20 dan) 129	", Sec. 3/16"; F Automatic 5 Refill 19-3/4 25 20	Automatic 5 Refill 19-3/4 22 5
Float Level	Car Pri. 1/8 Automatic 5 Refill 19-3/4 22 5 20 dan) 129 216.4	", Sec. 3/16"; F Automatic 5 Refill 19-3/4 25 20	5 Refill 19-3/4 22 5 20
Float Level	Car Pri. 1/8 Automatic 5 Refill 19-3/4 22 5 5 20 dian) 129 216.4 4370	", Sec. 3/16"; F Automatic 5 Refill 19-3/4 22 5 20 133 227.4 (2) 4500	5 Refill 19-3/4 22 5 20 149-4/5
Type Float Level Choke Control APACITY Oil (qt) Water (qt) Transmission (pt) Rear Axle (pt) Gasoline (gal) ENERAL DATA (Four-Door Se Wheelbase (in) Over All Lgth Incl Bumpers (in) Shipping Weight (ib) Tire Size—Recm Press (ib)	Car Pri. 1/8 Automatic 5 Refill 19-3/4 22 5 5 20 dian) 129 216.4 4370	", Sec. 3/16"; F Automatic 5 Refill 19-3/4 22 5 20 133 227.4 (2) 4500	Automatic 5 Refill 19-3/4 22 5 20 149-4/5 237.1
Float Level	Car Pri. 1/8 Automatic 5 Refill 19-3/4 22 5 20 dan) 129 216.4 4370 8.00x15-24-24	", Sec. 3/16"; R Automatic 5 Refill 19-3/4 22 5 20 133 227.4 (2) 4500 8.20x1!	Automatic 5 Refill 19-3/4 22 52 20 149-4/5 237.1 5055

Carter: Distance between float and machined surface of bowl cover casting, bowl cover assembly inverted. Rochester: Distance between bottom of float and bowl cover gasket, bowl cover assembly inverted.
 Overall length of Coupes and Convertibles 223.4.
 3.36 optional, 3.36 standard with air conditioning.

CADILLAC

CHEVROLET

		CHEAKOTEL
	Bel Air	Bel Air
	Two-Ten	Two-Ten
	One-Fifty	One-Fifty
CAR MODEL	Synchromesh	Powerglide
ENGINE	-	- M
	R-T	6-T
No. Cyl-Head Type	2 0 /16-2 15 /16	3-9/16x3-15/16
Displacement (cu in)	3-2/10/3-13/10	235.5
Displacement (cu iii)	233.3	30.4
AMA Horsepower	115 6: 2200	
Max Horsepower @ rpm	113 4 3100	125 % 4000
Max Torque, lb-ft @ rpm	200 4 2000	200 4 2000
Max bmep, lb sq in	128.1	128.1
Head Material	Cast Alloy fron	Cast Alloy Iron
Compression Ratio	7.5	7.5
Piston Material	Cast Alloy	Aluminum
Bearing Material	Steer Buc	ked Babbitt
IGNITION		
Spark Plug-Factory Eqpt		AC 44-5
Alternate	(1)	(1)
Spark Plug Gap	.035"	,035"
Breaker Gap	.0125" to .0175" (Worn)	.0125" to .0175" (Worn)
Cam Angle	38° to 42°	38° to 42°
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4
Timing-Crankshaft Degrees	2º ATC	2º ATC
Adv Deg -Centrif-Vac	26-17	26-17
Adv Begins -Ends-Eng rpm	600-3500	600-3500
Battery-Volts, Terminal Ground	6. Negative	6. Negative
VALVES		
Make and MaterialInt	Silchrome or Nic	kel Chrome Steel
Exh	Chrome-1	Nickel Steel
Tappet Clr-Seat Angle Int	.010"H (2)	Hvd Lifters (2)
		Hyd Lifters (3)
Exhaust Seat Inserts	None	None
CARBURETOR		
Make, Model	PP 7005021	RP 7005922
Type	Sel DD	Sgl DD
Float Level	1-1 16 (4)	1-5 16 (4)
Choke Control	Automotic	Automatic
	Mitomatic	Adtomatic
CAPACITY	F 30 - 611	5 D-411
Oil(qt)	p Keuff	5 Refill
Water(qt)	10 (0)	16 (5)
Transmission(pt) Rear Axle(pt)	1-1/2	20 Refill
Rear Axie(pt)	3-1/2	3-1/2
Gasoline (gal)		16
GENERAL DATA (Four-Door Sec		
Wheelbasetin)		115
Over All Ligh Incl Bumpers (in)	196.5	196 5
Shipping Weight(lb)	(6)	(7)
Tire Size -Recm Press (lb)	6.70×15-24-24	6.70x15-24-24
Rear Axle Ratio-Type	3.70 Hyp	3.55 Hyp
LOCATION CHASSIS SERIAL N		Body Hinge Pillar
(1) Champion's recommendation (2) Seat angle in cylinder head	1 310 - unite face andle	30° AM. 3.
(3) Seat angle in cylinder head	d 46° value face and	, 30 .
(4) Bottom of float to cover.	a, to, thire ince inigi	U ₂ TU .
(5) One quart additional with	heater	
(6) Rel Air 3255 Two-Ten 3236	One-Pifty 3210	

 ⁽⁵⁾ One quart additional with heater.
 (6) Bel Air 3255, Two-Ten 3230, One-Pifty 3210.
 (7) Bel Air 3380, Two-Ten 3355, One-Fifty 3335.

CHRYSLER	Windsor De Luxe	New Yorker
CAR MODEL	C-63	C-63-1
ENGINE		
No. Cyl-Head Type	6-L	V-8-I
Bore and Stroke (in)	3-7/16x4-3/4	3-13/16x3-5/8
Displacement (cu in)	264.5	331.1 46.51
AMA Horsepower in rpm	110 @ 2600	195 @ 4400
Max Torque, lb-ft @ rpm	218 44 1600	320 @ 2000
Max bmep, lb sq in	124	145.5
Head Material	Cast Iron	Cast Iron
Compression Ratio	7.0	7.5
Piston Material	AA	AA
Bearing Material	Steel Back	ked Babbitt
GNITION		17 100 150
Spark Plug-Factory Eqpt	AL 45-140	AL 4GS-150 AC 45, Champ N-8B
Alternate	AC 95, Champ J-8	.035"
Spark Plug Gap	กรก	.017"
Cam Angle	39° + 3	32° to 36° (1)
Firing Order	1-5-3-6-2-4	1-8-4-3-6-5-7-2
Timing-Crankshaft Degrees	TDC	4° BTC
Timing—Crankshaft Degrees Adv Deg—Centrif—Vac	20-18	24-23
Adv Begins-Ends-Eng rum	700-2850	775-4200 6. Positive
Battery-Volts. Terminal Ground	6. Positive	6. Pusitive
VALVES	Cilian Cha	i CtI
Make and MaterialInt	Silicon-Chi Silicon-Chi	omium Steel
Tannet Cir Seat Angle Int	.008" H. 45°	Hyd Lifters, 45°
Tappet Cir—Seat AngleInt Exh	.010" H. 45°	Hyd Lifters, 45°
Exhaust Seat Inserts	Yes	Yes
CADRIDETOR		
Muke Model	B and B(Car) E9C1(2)	Car WCD-2039-SA
Type	agi DD	Dual DD
Float Level	5/64" (3)	11/64" (4)
Choke Control	Automatic	Automatic
CAPACITY		
Oil(qt)	16	5 25
Water	2-3/4 (5)	24 Refill
Rear Axle(pt)	3-1/4	3-1/2
Gasoline(gal)	17	20
GENERAL DATA (Four-Door Sed		
Wheelbase(in)		125-1/2
Over All Lgth Incl Bumpers (in)	215-5/8	215-5/8
Shipping Weight(lb)	2625	3955
DILLUMIN WEIGHT		
Tire Size—Recm Press(lb) Rear Axle Ratio—Type	7 60 - 15 - 24 - 24	8.00x15-24-24 3.36 Hyp

LOCATION CHASSIS SERIAL NO. Left Front Door Body Hinge Post

 Total for two-breaker distributor; 26° to 28° for each breaker.
 Model E9Bl used on cars equipped with Power Flite.
 From top of float chamber to top of float.
 Between machined surface of float chamber cover and nearest point on float.

(5) 24 pints refill with Power Flite transmission.(6) 3.73 with Power Flite transmission.

				CHRYSLER
		New Yorker	Custom	Crown
		De Luxe	Imperial	Imperial
	CAR MODEL	C-63-2	C-64	C-66
,	ENGINE			
	No. Cyl-Head Type	V-8-I	V-8-I	V-8-I
	Bore and Stroke (in)	3-13/16x3-5/8	3-13/16x3-5/8	3-13/16x3-5/8
	Displacement (cu in)		331.1	331.1
	AMA Horsepower	46.51	46.51	46.51
	Max Horsepower a rpm		235 4 4400	235 4 4400
	Max Torque, lb-ft % rpm Max bmep, lb sq in	330 % 2600 150-3	330 't 2600 150 3	330 / 2600 150.3
	Head Material	Cast Iron	Cast Iron	Cast Iron
3	Compression Ratio	7.5	7.5	7.5
	Piston Material	AA	ΛΛ	AA
	Bearing Material	St	rel Backed Babl	bitt
	IGNITION			
	Snark Plug-Factory Eapt	AL 4GS-150	AL 4GS-150	AL 4GS-150
	Alternate	AC	45xL, Champ ?	
	Spark Plug Gap	.035"	.035"	.035"
	Breaker Gap		.017"	.017"
	Cam Angle	32° to 36° (1)	32° to 36° (1) -8-4-3-6-5-7-2	32° to 36° (1)
	Firing Order	4° BTC	4° BTC	4° BTC
	Adv Deg -Centrif -Vac	24-23	24-23	24-23
	Adv Begins Ends Eng rpm.		775-4200	775-4200
	Battery Volts, Terminal Ground		6, Positive	12, Positive
	VALVES			, , , ,
	Make and Material Int	Silli	con-Chromium	Steel
	Exh		con-Chromium	
	Tappet Cir-Seat AngleInt		draulic Lifters,	
	Exh		draulic Lifters,	Yes
	Exhaust Seat Inserts	162	1 6.2	103
	CARBURETOR		Car WCFB-2041	O
	Make, Model			DD 4 Barrel
	Float Level		1 8". Secondary	
	Choke Control	Automatic	Automatic	Automatic
	CAPACITY	-		
	Oil(qt)	5 Refill	5 Refill	5 Refill
	Water(qt)		25 (3)	25 (3)
	Transmissionpt)	24 Refill	24 Refill	24 Refill
	Rear Axle(pt)	3-1/2	3-1/2	5
	Gasoline (gal)		20	20
	GENERAL DATA (Four-Door Sed			
,	Wheelbase(in)		133-1/2 (4)	145-1/2
	Over All Light Incl Bumpers d	215-5/8	223-3/4 (4)	236-3 8
	Shipping Weight(lb) Tire SizeRecm Press(lb)		4345 8 20x15-24-24	Not Available 8.90x15-24-24
	Rear Axle Ratio Type	3.36 Hyp	3.54 Hyp	3,54 Hyp
			0	0.01 007 1

LOCATION CHASSIS SERIAL NO. Left Front Door Body Hinge Post

Total for two-breaker distributor; 26° to 28° for each breaker.
 From machined surface of cover to top of float.
 One quart additional with heater.
 Custom Imperial Newport, 131-1/2" wheelbase, 221-3/4" overall length.

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	Powermaster	Fire Dome
CAR MODEL	S-20	S-19
ENGINE		
No. Cyl-Head Type	6-L	V-8-I
Bore and Stroke (in)		3-5/8x3-11/32
Displacement (cu in)		276.1
AMA Horsepower	28.36	42.05
Max Horsepower a rpm	116 @ 3600	170 @ 4400
Max Torque, lb-ft a rpm	208 4 1600	255 4 2400
Max bmep, lb/sq in	125.1	139.3
Head Material	Cast Iron	Cast Iron
Compression Ratio		7.5
Piston Material		AA
Bearing Material	Steel Bac	ked Babbitt
IGNITION		
Spark Plug—Factory Eqpt	AT. 45-140	AL 4S-140
Spark Flug-Pactory Edpt	AC 45, Champ J-8	AC 45, Champ J-8
Spark Plug Gap	035"	.035"
Breaker Gap	020"	.017"
Cam Angle	30° + 3	32° to 36° (1)
Firing Order	1-5-3-6-2-4	1-8-4-3-6-5-7-2
Timing-Crankshaft Degrees	2º BTC	4° BTC
Adv Deg—Centrif—Vac	20-18	22-23
Adv Begins-Ends-Eng rpm	700-2850	800-3840
Battery-Volts, Terminal Ground	6 Positive	6. Positive
VALVES	Cillann-Ch	romium Steel
Make and MaterialInt		romium Steel
Tappet Cir-Seat AngleInt	000" 11 450	Hed Liftore 450
Tappet Cir—Seat AngleInt	.010" H, 45°	Hyd Lifters, 45°
Exhaust Seat Inserts	Vos	Yes
	1(3	103
CARBURETOR	B 4 D (G) F0G1	B and B(Com) 21205(2)
Make, Model	Band B (Car) E9C1	B and B(Car) 21295(2) Dual DD
Type	E 764" (2)	9/32" (4)
Float Level	Automotic	Automatic
Choke Control	Automatic	Adtomatic
CAPACITY		6 m - 011
Oll(qt)		5 Refill
	15 (5)	22 (5)
Transmission(pt)	2-3/4 (6)	2-3/4 (6)
Rear Axle(pt)	3-1/4	3-1/2
Campagna and an	17	17
GENERAL DATA (Four-Door Sed	an)	
Wheelbase(in)	125-1/2	125-1/2
Over All Lgth Incl Bumpers (in)	214-1/2	214-1/2
Shipping Weight(ib)	3590	3750
Tire Size-Reem Press(lb)	7.60x15-24-24	7.60x15-24-24 3.73 Hyp (8)
Rear Axle Ratio-Type		
TARREST CHARGE CHINAAT NO	D. Y IA Vinema Donn T	males Tilanen Dans

Domonworton

Wire Dame

LOCATION CHASSIS SERIAL NO. Left Front Door Body_Hinge Post____ (1) Total for two-breaker distributor; 26° to 28° for each breaker.

(2) No. 20678 on early production cars.

(2) From top of float chamber without gasket to top center of float.
(4) From top of float chamber without gasket to top of each float.
(5) One quart additional with heater.
(6) 3/4 pint additional with overdrive. 24 pints refill for Power Flite transmission.

(7) 4.3 with overdrive. 3.73 with Power Flite.(8) 4.1 with overdrive. 3.54 with Power Flite.

	Meadowbrook Coronet	Meadowbrook Coronet & Royal
CAR MODEL	D-51, D-52	D-50, D-53
ENGINE		
No. Cyl-Head Type Bore and Stroke (in) Displacement (cu in) AMA Horsepower Max Horsepower or rpm Max Torque, ib-ft or rpm Max brouge, ib-ft or rpm	3-1/4x4-5/8 230.2 25.35 110 or 3600 190 or 1600	V-8-1 3-7/16x3-1/4 241.3 37.8 150 4 4400 (1) 222 9 2400 (1) 138.7 (1)
Head Material	Cast Iron 7.25	Cast Iron 7.5 (1)
Piston Material		ked Babbitt
	Steel Bac	ked Babbitt
Spark Plug Gap Breaker Gap Cam Angle Firing Order Timing—Crankshaft Degrees. Adv Deg—Centrif—Vac Adv Begins—Ends—Eng rpm. Battery—Volts, Terminal Ground	AC 45, Champ J-8 .035" .020" 39" ± 3 1-5-3-6-2-4 2° BTC 16-16 850-2700	AL 4S-140 AC 45, Champ J-8 .035" .017" 32° to 36° (2) 1-8-4-3-6-5-7-2 4° BTC 22-23 720-3240 6, Positive
VALVES Make and MaterialInt Exh Tappet Cir—Seat AngleInt Exhaust Seat Inserts	Silicon-Ch: .010" H, 45°	romium Steel romium Steel Hyd Lifters, 45° Hyd Lifters, 45° Yes
CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil (qt) Water (qt) Transmission (pt)	B and B (Car) E9T1 Sgl DD 5/64" (3) Automatic 5 Refill 14 (5) 2-3/4 (6)	Strom WW-3-108 Dual DD 3/16" (4) Automatic 5 Refill 19 (5) 2-3/4 (6)
Rear Axle (pt) Gasoline (gal) GENERAL DATA (Four-Door Set Wheelbase (in) Over All Light Incl Bumpers (in) Shipping Weight (ib) Tire Size—Reem Press (ib) Rear Axle Ratio—Type LOCATION CHASSIS SERIAL N	3-1/4 17 1nn) 119 (7) 205-1/2 3235 (Coronet) 6.70x15-24-24 (8) 3.9 Hyp (9)	3-1/4 17 119 (7) 205-1/2 3425 (Royal) 7.10x15-24-24 3.9 Hyp :10:
LOCATION CHANNES SERIAL A	O. Lett Front Door B	our minge Post

- mission, compression ratio is 7.1, max torque 220 & 2000, HP 140 & 4400, max. briep 137.5.

 Total for two-breaker distributor; 26° to 28° dwell for each breaker.

 From top of float chamber without gasket to top of float.

 - (5) One quart additional with heater.
- (5) One quart additional with neater.
 (6) 3/4 pint additional with overdrive. 3 pints refill for Gyro-Matic transmission.
 (7) 114" for 2 door Suburban, Sport Coupe. Diplomat, and Convertible—over-all length 190-7/8" to 196" for these models.
 (8) 7.10x15 for four-door Suburban.
 (9) 4.3 with overdrive. 3.73 with Power Flite.
 (10) 4.1 with overdrive. 3.73 with conventional transmission in Mendowbrook with Power Flite.

(1) When Meadowbrook Model D-50-1 is equipped with conventional trans-

- model. 3.54 with Power Flite.

FORD		
	Mainline	Mainline
	Customline	Customline
	Crestline	Crestline
CAR MODEL	Six	Eight
ENGINE		
No. Cyl-Head Type	6-I	V-8-I
Bore and Stroke (in)	3.62x3.6	3.5x3.1
Displacement (cu in)	223	239
AMA Horsepower	31.5	39.2
Max Horsepower & rpm	115 @ 3900	130 @ 4200
Max Torque, lb-ft @ rpm	193 4 1000-2200	214 @ 1800-2200
Max bmep, lb/sq in	130.5	135.0
Head Material	Cast Iron	Cast Iron
Compression Ratio	7.2	7.2
Piston Material	AA	AA
Bearing Material	Steel Backed Babbitt	Copper-Lead, Steel
		Backed
IGNITION		
Spark Plug Factory Eqpt	Champion H-10	Champion H-10
Alternate	AC 45L AL	
Spark Plug Gap		.035"
Breaker Gap	.025"	.015"
Cam Angle	35° to 38°	26° to 28.5°
Firing Order	1-5-3-6-2-4	1-5-4-8-6-3-7-2
Timing-Crankshaft Degrees	3°BTC	6°BTC
Adv Deg-CentrifVac	(1)	(2)
Adv Begins -EndsEng rpm		
Battery-Voits, Terminal Ground	6, Positive	6, Positive
VALVES.		b, Positive
VALVES.		
VALVES Make and MaterialInt	Silchrome #1 Nichrome Alloy	Silchrome #1
VALVES Make and Material	Silchrome #1 Nichrome Alloy	Silchrome #1 Nichrome Alloy
VALVES Make and Material	Silchrome #1 Nichrome Alloy	Silchrome #1
VALVES Make and Material	Silchrome #1 Nichrome Alloy	Silchrome #1 Nichrome Alloy .019"H, 45"
VALVES Make and Material	Silchrome #1 Nichrome Alloy .015"H, 45° 019"H, 45° None	Silchrome #1 Nichrome Alloy .019"H. 45°
VALVES Make and Material	Silchrome #1 Nichrome Alloy .015"H, 45° 019"H, 45° None	Silchrome #1 Nichrome Alloy .019"H, 45° .010"H, 45° None
VALVES Make and Material	Silchrome #1 Nichrome Alloy .015"H, 45° 019"H, 45° None Holley 1904-F Sgl DD	Silchrome #1 Nichrome Alloy .019"H, 45° .010"H, 45° None Holley-Ford AA-1 Dual DD
VALVES Make and Material. Int Ext Tappet Cir—Seat Angle Int Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level	Silchrome ±1 Nichrome Alloy .015"H, 45° 019"H, 45° None Holley 1904-F Sgl DD 11 '16"±1/32" (3)	Silchrome #1 Nichrome Alloy .019"H, 45° .010"H, 45° None Holley-Ford AA-1 Dual DD
VALVES Make and Material. Int Ext Tappet Cir—Seat Angle Int Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level	Silchrome ±1 Nichrome Alloy .015"H, 45° 019"H, 45° None Holley 1904-F Sgl DD 11 '16"±1/32" (3)	Silchrome #1 Nichrome Alloy .019"H, 45° .010"H, 45° None Holley-Ford AA-1
VALVES Make and Material. Int Exh Tappet Cir—Seat Angle Int Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control	Silchrome ±1 Nichrome Alloy .015"H, 45° 019"H, 45° None Holley 1904-F Sgl DD 11 '16"±1/32" (3)	Silchrome #1 Nichrome Alloy .019"H, 45° .019"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4)
VALVES Make and Material. Int Exh Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control CAPACITY	Silchrome #1 Nichrome Alloy .015"H, 45" 019"H, 45" None Holley 1904-F Sgl DD 11 '16"#1/32" (3) Manual	Silchrome #1 Nichrome Alloy .019"H, 45° .019"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual
VALVES Make and Material. Int Exh Tappet Cir—Seat Angle Int Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil (qt)	Silchrome ±1 Nichrome Alloy .015"H, 45° .019"H, 45° None Holley 1904-F Sgl DD 11 '16"±1/32" (3) Manual	Silchrome #1 Nichrome Alloy .019"H, 45° .010"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual
VALVES Make and Material. Int Exh Tappet Cir—Seat Angle Exh Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil (qt) Water (qt)	Silchrome #1 Nichrome Alloy .015"H, 45" 019"H, 45" None Holley 1904-F Sgl DD 11 '16"#1/32" (3) Manual 4 Refull 15 (5)	Silchrome #1 Nichrome Alloy .019"H. 45° .019"H. 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual 5 Refill 20 (5)
VALVES Make and Material. Int Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil (qt) Water (qt) Transmission (pt)	Silchrome #1 Nichrome Alloy .015"H, 45° .019"H, 45° .019"H, 45° None Holley 1904-F Sgl DD 11 '16"#1/32" (3) Manual 4 Refill 15 (5) 3 (6)	Silchrome #1 Nichrome Alloy .019"H, 45° .019"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual 5 Refill 20 (5) 3 (6)
VALVES Make and Material. Int Exh Tappet Cir—Seat Angle Int Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil Water (qt) Water (qt) Transmission (pt) Rear Axle (pt)	Silchrome ±1 Nichrome Alloy .015"H, 45° .019"H, 45° .019"H, 45° .019"H, 45° .011"16"±1/32" (3) .01"16"±1/32" (3) .01"16"±1/32" (3) .01"16"±1/32" (Silchrome #1 Nichrome Alloy .019"H. 45° .019"H. 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual 5 Refill 20 (5)
VALVES Make and Material. Int Exh Tappet Cir—Seat Angle Int Exhaust Seat Inserts Exh CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oll Water Transmission (pt) Rear Axle Gasoline (gal)	Silchrome #1 Nichrome Alloy .015"H, 45" .019"H, 45" None Holley 1904-F Sgl DD .11 '16"#1/32" (3) Manual 4 Refill 15 (5) 3 (6) 3-1/2 17	Silchrome #1 Nichrome Alloy .019"H, 45° .019"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual 5 Refill 20 (5) 3 (6) 3-1/2
VALVES Make and Material. Int Ext Tappet CIr—Seat Angle Int Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil (qt) Water (qt) Transmission (pt) Rear Axle (pt) Gasoline (gal) GEMERAL DATA (FOUR-DOOR Se	Silchrome ±1 Nichrome Alloy .015"H, 45° .019"H, 45° .019"H, 45° None Holley 1904-F Sgl DD .11 '16"±1/32" (3) Manual 4 Refill .15 (5) .3 (6) .3-1/2 .17 dan)	Silchrome #1 Nichrome Alloy .019"H, 45° .019"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual 5 Refill 20 (5) 3 (6) 3-1/2 17
VALVES Make and Material. Int Exh Tappet Cir—Seat Angle Exh Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil (qt) Water (qt) Transmission (pt) Rear Axle (pt) Gasoline (gal) GENERAL DATA (Four-Door See Wheelbase (in)	Silchrome #1 Nichrome Alloy .015"H, 45" .019"H, 45" None Holley 1904-F Sgl DD .11 '16"#1/32" (3) Manual 4 Refull 15 (5) 3 (6) 3-1/2 .17 dan) .115.5	Silchrome #1 Nichrome Alloy .019"H, 45° .019"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual 5 Refill 20 (5) 3 (6) 3-1/2 17
VALVES Make and Material. Int Exhaust Seat Inserts Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil (qt) Water (qt) Transmission (pt) Rear Axle (pt) Gasoline (gal) GENERAL DATA (Four-Door Se Wheelbase (in) Over All Lgth Incl Bumpers (in)	Silchrome #1 Nichrome Alloy .015"H, 45" .019"H, 45" .019"H, 45" None Holley 1904-F Sgl DD .11 '16"#1/32" (3) Manual 4 Refill .15 (5) .3 (6) .3-1/2 .17 dan) .115.5 .198.3	Silchrome #1 Nichrome Alloy .019"H, 45° .019"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual 5 Refill 20 (5) 3 (6) 3-1/2 17 115.5 198.3
VALVES Make and Material. Int Exh Tappet Cir—Seat Angle Int Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil (qt) Water (qt) Transmission (pt) Rear Axle (pt) Gasoline (gal) GENERAL DATA (Four-Door See Wheelbase (in) Over All Light Incl Bumpers (in) Shipping Weight (lb)	Silchrome #1 Nichrome Alloy .015"H, 45" .019"H, 45" None Holley 1904-F Sgl DD .11 '16"#1/32" (3) Manual 4 Refull 15 (5) 3 (6) 3-1/2 .17 dan) .115.5 .198.3 .3154	Silchrome #1 Nichrome Alloy .019"H, 45° .019"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual 5 Refill 20 (5) 3 (6) 3-1/2 17 115.5 198.3 3251
VALVES Make and Material. Int Exh Tappet Cir—Seat Angle Int Exhaust Seat Inserts Exh CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil (qt) Water (qt) Transmission (pt) Rear Axle (pt) Gasoline (gal) GENERAL DATA (Four-Door Se Wheelbase (int) Shipping Weight (lb) Tire Size—Reem Press (lb)	Silchrome #1 Nichrome Alloy .015"H, 45" .019"H, 45" None Holley 1904-F Sgl DD .11 16"#1/32" (3) Manual 4 Refill .15 (5) .3 (6) .3-1/2 .17 dan) .115.5 .198.3 .3154 .6-70x15-26-23	Silchrome #1 Nichrome Alloy .019"H, 45° .019"H, 45° .019"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual 5 Refill 20 (5) 3 (6) 3-1/2 17 115.5 198.3 3251 198.3 3251
VALVES Make and Material. Int Exh Tappet Cir—Seat Angle Int Exhaust Seat Inserts CARBURETOR Make, Model Type Float Level Choke Control CAPACITY Oil (qt) Water (qt) Transmission (pt) Rear Axle (pt) Gasoline (gal) GENERAL DATA (Four-Door See Wheelbase (in) Over All Light Incl Bumpers (in) Shipping Weight (lb)	Silchrome ±1 Nichrome Alloy .015"H, 45° .019"H, 45° .019"H, 45° None Holley 1904-F .581 DD .11 '16"±1/32" (3) Manual 4 Refill .15 (5) .3 (6) .3-1/2 .17 .10 .115.5 .198.3 .3154 .6.70x15-26-23 .3.9 Hyp (7)	Silchrome #1 Nichrome Alloy .019"H, 45° .019"H, 45° None Holley-Ford AA-1 Dual DD 1.275" to 1.305" (4) Manual 5 Refill 20 (5) 3 (6) 3-1/2 17 115.5 198.3 3251

(1) Full vacuum actuated distributor - maximum advance with wide-open throttle is 26° @ 4000 rpm - at cruising torque maximum advance is 29° 1 2500 rpm.

4 3000 rpm.

(3) Below bowl at economizer diaphragm cover.

(4) Gauge from air horn to float bottom.
(5) One quart additional with heater.
(6) 4-1/2 pints when equipped with overdrive. Fordomatic requires 9-1/2 quarts.
(7) 4.1 optional. 4.1 standard, 3.9 and 3.31 optional with overdrive. With Fordomatic on "Six" 3.31 standard, 3.54 optional — on "Eight" 3.54 standard, 3.31 optional.

	Corsair	Corsair Deluxe
CAR MODEL	543	544
ENGINE		
No. Cyl-Head Type	4-L	6-L
Bore and Stroke (in)	3.125x4.375	3.125x3.5
Displacement (cu in)	134.2	161.0
AMA Horsepower	15.63	23.4 80 @ 3800
Max Horsepower a rpm Max Torque, lb-ft a rpm	100 5 1800	133 @ 1600
Max bmep, lb/sq in	122.4	124.5
Head Material	Cast Iron	Cast Iron
Compression Ratio	7.0	7.0
Piston Material	AA Steel Back	AA ted Babbitt
Bearing Material	Steel Back	ted Babbitt
IGNITION	17 17	AL A7
Spark Plug-Factory Eqpt	AC-45 Champ J-8	AC-45, Champ J-8
Spark Plug Gap	028" to .032"	.028" to .032"
Breaker Gan	.022	.022"
Cam Angle	79. 10 24	31° to 37°
Firing Order	1-7-4-7	1-5-3-6-2-4 5° BTDC
Timing -Crankshaft Degrees Adv Deg -Centrif Vac	2, BIDC	26-12
Adv BeginsEnds -Eng rpm	600-3000	700-3000
Battery-Volts, Terminal Ground	6. Positive	6. Positive
VALVES		
Make and MaterialInt	AISI C-3140	AISI C-3140
Exh	Unitoy 2	1-12 Steel .016" C. 45°
Tappet Cir-Seat Angle Int	.016" C, 45"	.016" C. 45"
Exhaust Seat Inserts	.016" C, 45°	None
CARBURETOR	······	-
Make, Model	Carter YF	Carter YF
Type	Single DD	Single DD
Float Level	(1)	(I)
Choke Control	Automatic	Automatic
CAPACITY		5
O11(qt)	10.8 (2)	9.5 (2)
Water (qt) Transmission (pt)	1-1/2 (3)	1-1/2 (3)
Rear Axle(pt)	2-1/2	2-1/2
Gasoline (gal)	13	13
GENERAL DATA (5 Passenger Sec		
Wheelbase(in)	100	100
Over All Loth Incl Bumpers (in)	181.75	182.125 2455 (4)
Shipping Weight(lb)	16-6 00	15x5.90
Tire Size—Reem Press(lb) Rear Axle Ratio Type	4 27 Hyp (5)	4.10 Hvp (5)
near have the to-Type	Toft Propt	Pillar Post
LOCATION CHASSIS SERIAL NO		

(1) From top of float to bottom surface of float bowl cover without gasket.
(2) One quart additional when equipped with a heater.
(3) 3/4 pint additional when equipped with an overdrive.
(4) Add 40 pounds with overdrive, deck lid 15 pounds.
(5) 4.55 when equipped with heater.

HUDSON

	Super Jet 2D	
CAR MODEL	Jet Liner 3D	Wasp 4D
ENGINE		
No. Cyl-Head Type	S-I.	6-L
Bore and Stroke (in)		3-9/16x3-7/8
Displacement (cu in)		232
AMA Horsepower		30.45
Max Horsepower @ rpm	104 % 4000	126 % 4400
Max Torque, lb-ft @ rpm		178 % 2400
Max bmep, lb/sq in	117.9	115.5
Head Material	Cast Iron (1)	Cast Iron (1)
Compression Ratio	7.5 (1)	7.0 (1)
Piston Material	ΛΛ	AA
Bearing Material	Steel Bac	ked Babbitt
IGNITION		
Spark Plug-Factory Eqpt	Champion H-10	Champion H-10
Alternate	AC 45L, AL	AL7 or ARL 8
Spark Plug Gap	.032"	.032"
Breaker Gap	.020"	.020"
Cam Angle	39°	29.
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4
Timing-Crankshaft Degrees	TDC	TDC
Adv Deg-Centrif-Vac		20-10
Adv Begins-Ends-Eng rpm		600-2400
Battery-Volts, Terminal Ground	6, Positive	6, Positive
VALVES		
Make and MaterialInt	Eaton 8645	Eaton 8645
Exh	Eaton 2112	Eaton 2112
Tappet Cir-Seat AngleInt	.010"H, 45°	.008"H, 45°
	.012"H, 45°	.010"H, 45°
Exhaust Seat Inserts	None	None
CARBURETOR		
Make, Model	Car WAI 2009SA	Car WAI 7495 (2)
Type	Sgl DD	Sgl DD
Float Level	7/16" (3)	1/2" (3)
Choke Control		Automatic
CAPACITY		
Oil(qt)	5 Refill	7 Refill
Water(qt)		18-1/2 (4)
Transmission(pt)	1-1/2 (5)	2-1/4 (5)
Rear Axle(pt)	2-1/2	3-1/2
Gasolinetgal)		20
GENERAL DATA (Four-Door Sed		
Wheelbase(in)		119-7/8
Over All Lgth Incl Bumpers (in)		201-1/2
Shipping Weight(lb)	2675	3440
Tire Size-Recm Press(lb)	5.90x15-26-24(6)	7.10x15-26-24(7)
Rear Axle Ratio-Type		4 09 Hyp (9)
LOCATION CHASSIS SERIAL NO		ont Pillar Post
(1) Aluminum head ontional: 8		

Jet 1D

(1) Aluminum head optional: 8.0 compression ratio for Jets and 7.5 for Wasp.

(2) Optional: Two carburetor system available with optional 262" Super Wasp engine—Carter WAI 2114S.
 (3) From projection on bowl cover to soldered seam of float—with cover inverted and needle seated.

inverted and needle seated.

(4) Add 1 quart when equipped with heater.

(5) With overdrive: Jets 2-1/2 pints. Warp 3-1/2 pints. With automatic transmission: Jets 8-1/2 quarts refill, Wasp 11 quarts refill.

(6) 6 40x15 standard on Super Jet and Jet Liner, optional on Jet.

(7) 7.60x15 optional, 7.60x15 standard on convertible brougham.

(8) 4.27 with overdrive, 3.54 with Hydra-Matic. Optional: Conventional 4.27 or 3.31, overdrive 4.1—3.54—3.31, Hydra-Matic 3.31.

(9) 4.55 with overdrive, 3.07 with automatic transmission.

CAR MODEL	Super Wasp 5D	Hornet 7D
ENGINE		
No. Cyl-Head Type		6-L
Bore and Stroke (in)		3-13/16x4-1/2
Displacement (cu in)		308
AMA Horsepower	30.45	34.88
Max Horsepower @ rpm	140 7 4000	160 7 3800
Max Torque, lb-ft " rpm	214 4 1600	264 9 1800
Max bmep, lb/sq in	122.8	129.3
Head Material	Cast Iron (1)	Aluminum
Compression Ratio	7.0 (1)	7.5
Piston Material	AA	AA
Bearing Material	Steel Bac	ked Babbitt
IGNITION		
Spark Plug-Factory Eqpt	Champion H-10	Champion H-11
Alternate	AC 45T. AT.	AL7 or ARL 8
Spark Plug Gap	030"	.032"
Breaker Gap	0207	.020"
Cam Angle	300	39°
Firing Order	1-5-3-8-2-4	1-5-3-6-2-4
Timing-Crankshaft Degrees		TDC
Adv Deg -Centrif-Vac		18-8
Adv Begins—Ends—Eng rpm	1000-4000	1000-4000
Battery-Volts, Terminal Ground		6. Positive
	0, 10 11116	0, 10311116
VALVES	F 0015	
Make and Material Int		Eaton 8645
Exh	Eaton 2112	Eaton 2112
Tappet Cir-Seat Angle Int	.008"H, 45"	.008"H, 45°
Exhaust Seat Inserts	.010"H, 45°	.010"H, 45°
	Mone	None
CARBURETOR		
Make, Model	Car WGD 2115S (2)	Car WGD 2115S (2)
Type	Dual DD	Dual DD
Float Level	3/16" (3)	3/16" (3)
Choke Control	_Automatic	Automatic
CAPACITY		
Oil(qt)	7 Refill	7 Refill
Water(qt)	18-1/2 (4)	18-1/2 (4)
Transmission(pt)	2-1/4 (5)	2-1/4 (5)
Rear Axle(pt)	3-1/2	3-1/2
Gasoline(gal)		20
GENERAL DATA (Four-Door Sec		
Wheelbase(in)		123-7/8
Over All Lgth Incl Bumpers (in	202-15/16	208-7/8
Shipping Weight(lb)	3525	3620
Tire Size—Recm Press(lb)	7.10x15 (6)	
Rear Axle Ratio_Type	4.09 Hyp (7)	4.09 Hyn (7)
LOCATION CHASSIS SERIAL N		it Fillar Post
(1) 7.5 aluminum head optional		tor WAT 2114S Hornet

(2) Optional: two-carburetor system; Super Wasp-Carter WAI 2114S, Hornet-

⁽²⁾ Optional: two-caroureror system; Super Wasp-Carter WAI 2114S. Hornet Carter WAI 2114S. Hornet Carter WAI 2114S. Hornet (4) Add one quart when equipped with heater.
(5) 3-1/2 punts with overdrive. Automatic transmission requires 11 quarts. (6) 8.00x15 optional. 7.60x15 standard on convertible brougham. (7) Overdrive 4.55. Automatic transmission 3.07.

KAISER

KAIJEK	Caralal	9.0
CAR MODEL	Special K-541	Manhattan K-542
ENGINE		41-010
No. Cyl-Head Type	CY	0.7
No. Cyl-nead Type	6-L	G-L
Bore and Stroke (in)	0.3120X4.370	3.3125x4.375
		226.2
AMA Horsepower	20.3	26.3
Max Horsepower @ rpm	200 (- 1000	110 9 3800
Max Torque, lb-ft @ rpm		215 / 2600
Max bmep, lb/sq in Head Material		143.3
Compression Ratio		Cast Iron 7.3
Piston Material		AA
Bearing Material		ked Babbitt
-	Steel Batel	ken Bannite
IGNITION		
Spark Plug-Factory Eqpt		AL A7
Alternate	AC 45, Ch	ampion J-8
Spark Plug Gap	.028" to .032"	.028" to .032"
Breaker Gap	.010	.016"
Cam Angle	36 -10	38°-45°
Firing Order	1-0-3-0-2-4	1-5-3-6-2-4
Timing-Crankshaft Degrees	4º BIDC	4° BTDC
Adv Deg-Centrif-Vac	18-10	20-10
Adv Begins-Ends-Eng rpm	6 Docition	650-2000
Battery-Volts, Terminal Ground	b, rositive	6, Positive
VALVES		
Make and MaterialInt		Silichrome #1
Exh	Sil XCR	BII XCR
Tappet Clr-Seat AngleInt	.914" C, 30"	.014" C, 30°
	.014" C, 45°	.014" C, 45°
Exhaust Seat Inserts	None	None
CARBURETOR		
Make, Model		Carter WGD
Type	Dual DD	Dual DD
Float Level	1/4" (1)	11/32" (1)
Choke Control	Automatic	Automatic
CAPACITY		
Oil(qt)	5 (2)	5 (2)
Water(gt)	12.5 (3)	12.5 (3)
Transmission(pt)	2-1/2 (4)	2-1/2 (4)
Rear Axle(pt)	2-1/2	2-1/2
Gasoline (gal)	17	17
GENERAL DATA (Four-Door Sec	ian)	
Wheelbase(in)	118.5	118.5
Over All Lgth Incl Bumpers (in)	213.78	215 62
Shipping Weight(1b)	3210 (5)	3375 (5)
Tire Size—Reem Press(lb)	15x6 70	15x6.70
Rear Axle Ratio-Type	3.91 Hyp (6)	3 91 Hyp (6)
LOCATION CHASSIS SERIAL NO		Pillar Post
		V 8 88888 & V/OT
(1) From top of float to bottom	m of float bowl cover.	

⁽¹⁾ From top of float to bottom of float bowl cover.
(2) 5 quarts refill—6 quarts with new filter.
(3) One quart additional with heater.
(4) 3-1/2 with overdrive.
(5) Add 115 pounds with Hydra-Matic; 40 pounds with overdrive.
(6) 4.55 with overdrive; 3.31 with automatic.

LINCOLN-MEDCHDY

	Lincoln Cosmopolitan	Mercury Custom and
CAR MODEL	and Capri	Special Custom
ENGINE No. Cyl-Head Type Bore and Stroke (in) Displacement (cu in) AMA Horsepower Max Horsepower 7 rpm Max Torque, lb-ft 7 rpm Max bmep, lb/sq in Head Material Compression Ratio Piston Material Bearing Material	3.8x3.5 317 46.2 205 @ 4200 305 @ 2300-3000 144.8 Cast Iron 8.0	V-8-T 3.62x3.1 256 42.05 161 9 4400 238 9 2200-2800 140.2 Cast Iron 7.5 AA Copper-Lead, Steel Backed
IGNITION Spark Plug—Factory Eqpt Spark Plug Gap Breaker Gap Cam Angle Firing Order Timing—Crankshaft Degrees Adv Deg—Centrif—Vac Adv Begins—Ends—Eng rpm	AC 45L, AL .033" to .037" .014" to .010" .26° to 28.5° 1-5-4-8-6-3-7-2 3°BTC (1)	Champion H-10 AL7 or ARL8 029" to .033" 014" to .016" 26° to 28.5° 1-5-4-8-6-3-7-2 3°BTC (2)
Battery-Volts, Terminal Ground	6, Positive	6, Positive
VALVES Make and Material	Nichrome Alloy Hyd Lifters, 45° Hyd Lifters, 45°	Silchrome #1 Nichrome Alloy .019"H, 45° None
CARBURETOR Make, Model Type Float Level Choke Control CAPACITY	Holley 2140 DD 4 Barrel 1/2" + 1/32" (3)	Holley 2140 DD 4 Barrel 1/2" + 1/32" (3) Automatic
Oil (qt) Water (qt) Transmission (pt) Rear Axle (pt) Gasoline (gal)	22.5 (4) 22 4 20	5 Refill 19 (5) 3 (6) 3.5
GENERAL DATA (Four-Door Sec Wheelbase (in) Over All Lath Incl Bumpers (in) Shipping Weight (ib) Tire Size—Recen Press. (ib) Rear Axle Ratio—Type	123 214.8 4048 8.00×15-26-22	118 203.7 3439 7.10x15-26-22 3.91 Hyp (7)
TOCATION CHARGE CHARACTE	3.31 119)	0.00 213 17 17

LOCATION CHASSIS SERIAL NO. Right Front Door Pillar Post Full vacuum actuated distributor — maximum advance with wide-open throttle is 33° 1 4000 rpm — at cruising torque maximum advance is 34° 1 4000 rpm.

(2) Full vacuum actuated distributor — maximum advance with wide-open throttle is 33° 44000 rpm — at cruising torque maximum advance is 33.5° (3) From top of bowl without gasket to fuel level.
(4) Two quarts additional with heater.
(5) One quart additional with heater.
(6) 4-1.2 pints with overdrive. Merc-O-Matic requires 9-5/8 quarts.

(7) 4.09 optional, 4.09 standard with overdrive, 3.91 optional, 3.54 standard with Merc-O-Matic, 3.31 optional.

SPARK PLUG HEAT

	4		——НО	TTER —	
	1t mm	48 48X		46-5 46X 46 45XL**	45 44-5 45L*
	10 mm	М-8		106	
AC	18 mm	88*		86	
	7/4"	78 78S*		76 76S	
	14 mm	J-14	J-12 H-12*	J-11 H-11*	J-8 H-10*
CHAM- PION	10 mm	Y-	.8	3	Y-6
	18 mm	10 Com-6	54.0	9 15-A	8 Com C-7
	7/n **				
	14 mm	A 11	AR10 AT10	ARS A9 ARLS AT3 4GS125**4S140	* ALT*
AUTO-	10 mm				P6 PR6
LITE	18 mm		BT10 BR10	BT	3 28
	7.4		TT10	TI	rs

^{**} Long Reach (%; a")
** Extra Long Reach (%;")

RANGE COMPARISONS

	Cor	DER —		>	
44	43L* .	43-5		14 mm	
104		-		10 mm	
				18 mm	,\C
74		_		76-	
J-7 H-9*	J-6 H-8*	J-5	J-2	14 mm	
Y-4-A				10 mm	CHAM-
6 Com		5 Com	4 Com	18 mm	PION
				36"	
AT6	AR5 ARL5* 4S165	A5 AR AL5* AT4 4GS175** 4GS	A3	14 mm	
		P4 PR4		10 mm	AUTO-
BT6		BT4 BRi		18 mm	LILLE
		TT		₹6~	
vehicles. All p being clean. Plug I 1	ressures listed a	re based on spark	led for standard plass plug and engane the Aluminum Heads 11 lb-ft 27 lb-ft 32 lb-ft 35 lb-ft	irvads	TORQUE WRENC CHART

NASH

INAGII	Rambler	Rambler
	100" Wheelbase	108" Wheelbase
	with conventional	(also 100" Wheelbase
CAD MODEL	Transmission	with Hydra-Matic)
CAR MODEL	Transmission	with Hydra
ENGINE		
No. Cyl-Head Type	6-L	6-L
Bore and Stroke (in)	3-1/8X4	3-1 '8x4-1/4
Displacement (cu in)	184	195.6
AMA Horsepower	23.44	23.44
Max Horsepower @ rpm	85 4 3800	90 7 3800
Max Torque, lb-ft 4 rpm	150 % 1600	150 / 1600
Max brep, lb sq in	122 9	115.7
Head Material	Cast Iron	Cast Iron 7.3 (1)
Compression Ratio	7.25 (1)	AA
Piston Material	AA Gtaal Basi	ked Babbitt
Bearing Material	Steel Baci	ked Babbitt
IGNITION		
Spark Plug-Factory Eqpt	AL-A7	AL-A7
Alternate		hampion J-7
Spark Plug Gap	.030"	.030"
Breaker Gap	.022"	.022" 31° to 37°
Cam Angle	31- to 37-	1-5-3-6-2-4
Firing Order	1-0-3-0-2-4	4° ATC
Timing-Crankshaft Degrees	TDC	22-11
Adv Deg -Centrif -Vac	500 2000	600-2800
Adv Begins-Ends-Eng rpm	6 Baritina	6. Positive
Battery-Volts, Terminal Ground	_0, rositive	0, 10.11110
VALVES	**	Various 3140
Make and MaterialInt	Various 3140	or Rich 2112
Exh	oregit 460	.015"H. 45°
Tappet Cir-Seat AngleInt	.015"H, 45°	.015"H. 45°
Exhaust Seat Inserts	None 11, 10	None
CARBURETOR	G 1122 0014C	Car YF-2014S
Make, Model	CRF 1F-20145	Sgl DD
Type	1 (2)	1/2" (2)
Float Level	Automotio	Automatic
Choke Control	Automatic	71400111111
CAPACITY	4 82 4911	4 D=611
Oil(qt)	4 Refill	4 Refill
Water(qt)	11 (3)	11 (3)
Transmission	1-1/2 (4)	1-1/2 (4)
Rear Axle	20	20
Gasolinegali	20	
GENERAL DATA	100	100
Wheelbase	100	108
Over All Lgth Incl Bumpers (in)	185-3/8	193-3/8 2650
Chinning Weight (lb)	2550	6.40x15-24-24
Tire Size-Recm Fress (10)	0.40%19-64-64 (9)	
Rear Axie Ratio-1vpe	2 11 11711 101	3.77 Hyp (6)
LOCATION CHASSIS SERIAL NO). Under Hood	on Dash Panel
(1) 7.5 optional.		
(T) t'n oberommi	nd to floor chamber co	was Annea

7.5 optional.
 From top of float at free end to float chamber cover flange.
 One quart additional with heater.
 One quart additional with heater.
 2-3 4 pints with overdrive. 17 pints refill with Hydra-Matic.
 6.4 dvx15 custom. 5.90x15 for super.
 4-4 optional. With overdrive 4.4 standard, 4.1 optional. With Hydra-Matic 3.3 standard.

	GAD MODEL	Statesman 5440	Ambassador 5460
1	CAR MODEL	D110	17400
-	No. Cyl-Head Type	R-T.	6-I
	Bore and Stroke (in)	3-1/894-1/4	3-1/2x4-3/8
	Displacement (cu in)		252.6
	AMA Horsepower	23.44	29.4
	Max Horsepower @ rpm	110 1 4000	130 @ 3700 (1)
	Max Torque, lb-ft ff rpm	155 4 2000	220 @ 1600 (1)
	Max bmep, lb/sq in	119.4	131.3
	Head Material	Aluminum	Cast Iron
	Compression Ratio	8.5	7.6 (1)
1	Piston Material	ΛΛ	AA
	Bearing Material	Steel Back	ked Babbitt
	IGNITION		
	Spark Plug-Factory Eqpt	AL-AL5	AL-A7
		AC 43L, Champ H-8	AC 44-5, Champ J-7
	Spark Plug Gap	.030"	.030"
	Breaker Gap	.022"	.022"
	Cam Angle	31, 60 31,	31° to 37°
	Firing Order	1-3-3-0-2-4	1-5-3-6-2-4 TDC
	Timing—Crankshaft Degrees Adv Deg—Centrif—Vac	22-11	28-12
	Adv Begins—Ends Eng rpm	675-3600	600-2700
	Battery-Volts, Terminal Ground	6. Positive	6. Positive
		0, 10,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	o, a doiter to
	Make and MaterialInt	Verious 2140	Various 3140
	Make and MatteriatEvh	AI, Eaton	
	Tappet Cir-Seat Angle Int	.015"H. 45°	.012"H, 30°
	Exh	.015"H, 45°	.016"H. 45°
	Exhaust Seat Inserts	Yes	None
	CARBURETOR		
	Make, Model	Car YF-2098S	Car YH-8958 (2)
	Type	8gl DD (3)	Sg! SD
	Float Level	3/8" (4)	3/8" (4)
	Choke Control	Automatic	Automatic
	CAPACITY		
	Oil(qt)	4 Refill	6 Refill
	Water(qt)	14 (5)	17 (5)
	Transmission(pt)	2-1/4 (6)	2-1/4 (7)
	Rear Axle(pt)	3	4
	Gasoline(gal)		20
	GENERAL DATA (Four-Door Sed	an)	
	Wheelbase(in)		121-1/4
	Over All Lgth Incl Bumpers (in)		209-1/4
	Shipping Weight(lb)	3045	3430
	Tire Size—Recm Press(lb)	6.70X15-24-24	7.10×15-24-24
	Rear Axle Ratio-Type		4.1 Hyp (9)
	LOCATION CHASSIS SERIAL NO	. Under Hood	on Dash Panel
	(1) Optional is LeMans Dual J	etfire engine with 8.0	:1 aluminum head. HP

140 & 4000, max torque 230 & 2000.
(2) LeMans Dual Jetfire engine uses two Carter carburetors—YH-973S front, YH-974S rear.

 (3) Uses two carburetors.
 (4) From bowl cover to top of float—with bowl cover assembly inverted and needle seated.

(5) One quart additional with heater.
(6) 3-1/2 pints with overdrive. 17 pints refill with Hydra-Matic.
(7) 3-1/2 pints with overdrive. 22 pints refill with Hydra-Matic.
(8) 4.1 optional. 4.9 standard with overdrive, 4.4 optional. 3.6 standard with Hydra-Matic.

(9) 4.4 standard with overdrive, 4.1 optional. 3.15 standard with Hydra-Matic.

OLDSMOBILE			
CAR MODEL	.,88.,	Super "88"	Ninety-Eight
ENGINE No. Cyl-Head Type Bore and Stroke (in) Displacement (cu in) AMA Horsepower Max Horsepower Max Torque, lb-lt @ rpm Max bmep, lb/sq in Head Material Compression Ratio Piston Material Bearing Material	139.5 Cast Iron 8.25 AA	V-8-I 3-7/8x3-7/16 324.31 48 185 @ 4000 300 @ 2000 139.5 Cast Iron 8.25 AA teel Backed Du	V-8-I 3-T/8x3-7/16 324.31 48 185 @ 4000 300 @ 2000 139.5 Cast Iron 8.25 AA
IGNITION	10 10 5	10 10 5	AC 46-5
Spark Plug—Factory Eqpt Alternate Spark Plug Gap Breaker Gap Cam Angle	.030" .016" 26° to 33°	AC 46-5 9 or AR8, Cham .030" .016" 26° to 33°	
Firing Order Timing—Crankshaft Degrees Adv Deg—Centrif—Vac Adv Begins—Ends—Eng rpm Battery—Volts, Terminal Ground	5° BTC 29-20 650-3600	8-7-3-6-5-4-2 6° BTC 29-20 650-3600 12, Negative	5° BTC 29-20 650-3600 12. Negative
VALVES Make and Material	TI	or Eaton Sil 2 draulic Lifters, ydraulic Lifters,	XCR 45°
Exhaust Seat Inserts	None	None	None
CARBURETOR Make, Model Type Float Level Choke Control	Dual DD 1/4"±1/64"(1)	DD 4	r Car WCFB Barrel (2) Automatic
CAPACITY	5 Refill 20.5 (3) 2-1/2 (4) 5 20	5 Refil 20.5 (3) 2-1/2 (4) 5 20	5 Refill 20.5 (3) 2-1/2 (4) 5 20
GENERAL DATA (Four-Door Set Wheelbase	122 205-1/4 3692 7.60x15-24-22 3.42 Hyp(5)	122 205-1/4 3734 7.60x15-24-22 3.42 Hyp(6)	126 214-1/4 3846 7.60x15-24-22 3.42 Hyp(6)
LOCATION CHASSIS SERIAL NO		Front Door Pill	11,021
(1) From flange of cover to to (2) Rochester: 1-5 8" from cov	of float. or gasket to be	ottom of float	with bowl cover

⁽²⁾ Rochester: 1-5 8" from cover gasket to bottom of float with bowl cover inverted and needle seated. Carter: 1/4" from machined face of cover to top of float with bowl cover inverted and needle seated.
(3) One quart additional with heater.
(4) Hydra-Matic requires 10-1/2 quarts for refill.
(5) 3.64 optional. 3.07 standard with Hydra-Matic.
(6) 3.64 optional. 3.23 standard with Hydra-Matic.

Plaza P-25-1 Savoy P-25-2 Belvedere P-25-3 CAR MODEL ENGINE No. Cyl-Head Type 6-L Bore and Stroke (in) 3-1/4x4-3/8 Head Material Cast Iron Compression Ratio 7.1 IGNITION Spark Plug—Factory Eqpt AL 48-140
Alternate AC 45, Champ J-8 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | Battery-Volts, Terminal Ground 6, Positive VALVES Make and Material.......Int Silicon-Chromium Steel
Exh Silicon-Chromium Steel Tappet Clr—Seat AngleInt .010" H, 45° Exh .010" H, 45° Exhaust Seat Inserts Yes CARBURETOR
 Make, Model
 Ball and Ball (Carter) 920S (1)

 Type
 Sgl DD

 Float Level
 7/32" (2)
 Choke Control Automatic CAPACITY(qt) 5 Refill (3) Oil
 Water
 (qt) 13 (4)

 Transmission
 (pt) 2-3/4 (5)

 Rear Axle
 (pt) 3-1/4

 Gasoline
 (gal) 17
 GENERAL DATA (Four-Door Sedan)

Shipping Weight ... (ib) (6)
Tire Size—Recm Press... (ib) 6.70x15-24-24
Rear Axle Ratio—Type ... 3.73 Hyp (7) LOCATION CHASSIS SERIAL NO. Left Front Door Body Hinge Post

 Model D6H2 on early production cars.
 From top of float chamber without gasket to top of float. (3) With Hy-Drive transmission, engine and torque converter have a com-

bined oil system and require 10 quarts of oil.

(4) Without heater. One additional quart with heater.

(5) 3/4 pint additional with overdrive; with Hy-Drive, engine and torque converter have a combined oil system and require 10 quarts of oil. (6) 3004 for Plaza, 3066 for Savoy, 3650 for Belvedere. (7) 4.1 with overdrive; 3.73 with torque converter.

PACKARD

ENGINE

CAR MODEL

Displacement (cu in)		327
AMA Horsepower	39.2	39.2
Max Horsepower @ rpm	150 @ 4000	165 @ 3600
Max Torque, lb-ft @ rpm	260 @ 2200	295 @ 2200
Max pmen, in/sq in	136	138
Head Material Compression Ratio	Cast Iron	Cast Iron
Compression Ratio	7.7	8.0
Piston Material	AA	AA
Bearing Material		ite Construction_
IGNITION		_
Spark Plug—Factory Eqpt	Champion I-R	Champion I-8
		L-A7 or AR8
Alternate	025"	.025"
Spark Plug Gap	0157	.015"
Breaker Gap	.013	
Cam Angle	27	31° (1)
Firing Order	1-6-2-5-6-3-7-4	1-6-2-5-8-3-7-4
Timing—Crankshaft Degrees	6°BTC	6°BTC
Adv Deg-Centrif-Vac	16-10	16-12 (1)
Adv Begins-Ends-Eng rpm	600-3200	600-3200
Adv Begins—Ends—Eng rpm Battery—Volts, Terminal Ground	6. Positive	6, Positive
VALVES		
Make and MaterialInt	Faton 8845	or equivalent
Exh	Eaton 2112 o	e Dich 7155 M
EXII	COUNTY SOR	007-17 900
Tappet Cir-Seat Angle Int	.004 21, 30	.007 11. 30
Exh	.010"H, 45"	.007"H, 30° .010"H, 45° None
Exhaust Seat Inserts	None	None
CARBURETOR		
Make, Model	Car WGD-986S	Car WGD-2102S
Type	Dual DD	Dual DD
Float Level	13/64 (2)	13/64 (2)
Choke Control		Automatic
CAPACITY	7 D-611	7 Refill
Oil(qt)	1 Reitti	7 Reilli
Water(qt)	19.9 (3)	19.9 (3)
Transmission(pt)		2 (4)
Rear Axle(pt)	4-1/4	4-1/4
Gasoline(gal)	30	20
GENERAL DATA (Four-Door Sec	lan)	
Wheelbase(in)	122"	123"
Over All Lgth Incl Bumpers (in:	215-1/2	215-1/2
Shipping Weight(lb)		(5)
Tire Size—Recm Press(lb)	7 80 - 15 - 24 - 24	7,60x15-24-24
Rear Axle Ratio—Type	7.0 (1)	3 0 Mars (7)
LOCATION CHASSIS SERIAL NO	Left Front Do	or Hinge Pillar
(1) Ignition data shown for Cli	oper Super, Ignition d	ata for Clipper Deluxe
same as for Clipper Special		and the property and the same
(2) Measured from float to cove		
(3) 2/3 quart additional with heater.		
(4) 3-1/4 pints with overdrive. Ultramatic requires 12 quarts.		
(5) With Ultramatic—Special 3790, Deluxe 3795, Super 3830. (6) 4.1 standard with overdrive. 3.54 standard with Ultramatic transmission.		
(6) 4.1 standard with overdrive	. 3.54 standard with U	itramatic transmission.
(7) 4.1 standard with overdrive	. 3.23 Standard with U	tramatic transmission.

Clipper Special

5400

288 39.2

No. Cyl-Head Type 8-L Bore and Stroke (in) 3-1/2x3-3/4

Displacement (cu in)

Clipper Deluxe

5401 and 5411

and Super

3-1/2x4-1/4 327

Patrician

		Patrician Pacific Caribbean and	
CAR MODEL	Cavaller	Convertible	Custom
ENGINE			
No. Cyl-Head Type	8L	8L	ar.
Bore and Stroke (in)	3-1/2x4-1/4	3-9/16x4-1/2	3-9/16x4-1/2
Displacement (cu in)	327	359	359
AMA Horsepower	39.2	40.6	40.6
Max Horsepower a rpm	185 0 4000	212 7 4000	212 @ 4000
Max Torque, lb-ft 1 rpm	310 @ 2200	330 % 2200	330 @ 2260
Max bmep, lb sq ln	142.9	139	139
Head Material	Cast Iron	Aluminum	Aluminum
Compression Ratio	8.0	8.7	8.7
Piston Material	AA	۸۸	AA
Bearing Material	Special	Composite Cor	struction
IGNITION	Champ 1.8	Champ J-8	Champ 1.0
Spark Plug-Factory Eqpt			Champ J-8
Alternate	ODE"	2 44-5, AL-A7 or	ALO ODE"
Spark Plug Gap		.025"	.025"
Breaker Gab	019	.015" 31°	.015"
Cam Angle	31°		31"
Firing Order		6-2-5-8-3-7-4	F00 F0 - 60
Timing-Crankshaft Degrees	. 6° BTC	TDC	TDC
Adv Deg-Centrif-Vac	. 16-12	20-18	20-18
Adv Begins-Ends-Eng rpm	600-3200	600-1925	600-1925
Battery-Volts, Terminal Ground	1_6, Positive	6. Positive	6, Positive
VALVES			
Make and Material In	3140 or 8645	Sil #1	Sil #1
			2155N
Tunnet Cir-Seat Angle I.	H	edraulic Lifters	. 30°
Tappet Cir—Seat AngleI.	H.	vdraulic Lifters	. 45°
Exhaust Seat Inserts	None	None	None
CARBURETOR	. Car WCFB 21	DIE COT W	CFB 2112S
Make, Model	. Cui WCFD 21	r Barrel Down	
Type	FUL	(2)	(2)
Float Level	. (L)		Automatic
Choke Control	, Automatic	Automatic	Atteomatic
CAPACITY			
Oil	7 Refill	7 Refill	7 Refill
Waterqt	199 (3)	19.9 (3)	19.9 (3)
Transmission(pt)) 2 (4)	2 (4)	2 (4)
Rear Axlept	1 4-1/4	4-1/4	4-1/4
Gasoline (gel	20	20	20
GENERAL DATA (Four-Door Se			
Wheelbase(in)		127 (5)	149
Owner All Lath Tool Burnson (in	216-1/2	216-1/2	238-1/2
Over All Light Incl Bumpers (in:	4090 (6)	4190 (6)	4785 (5)
Shipping Weight(lb:	9 00v15-94-94	8.00×15-24-24	8.20×15-24-24
Dans Aria Dario Tuno	2.0 1110 (7)		4.1 (8)
Rear Axle Ratio-Type			
LOCATION CHASSIS SERIAL N	O. Left	Front Door Hin	ge Pillar
(1) Float to cover, primary 5/	32", secondary	5/32".	

- (1) Float to cover, primary 5/32", secondary 5/32".
 (2) Float to cover, primary 1/8", secondary 5/32".
 (3) 21.05 quarts required with heater.
 (4) 3-1/4 pints with overdrive. Ultramatic requires 12 quarts.
 (5) 122" wheelbase for Hardtop and Convertibles.
 (6) With Ultramatic transmission.
 (7) 4.1 standard with overdrive. 3.54 standard with Ultramatic transmission.
 (8) 4.55 standard with overdrive. 3.9 standard with Ultramatic transmission.

PONTIAC

CAR MODEL	Chieftain 6	Chieftain 8	Star Chief 8
ENGINE	O		Stat Omer_b_
	6-L	8-L	
No. Cyl-Head Type	2 0 /10-4		8-L
Bore and Stroke (in)	3-9/16x4	3-3/8x3-3/4	3-3/8x3-3/4
Displacement (cu in)	239.2	268.4	268.4
AMA Horsepower	30.46	36.45	36.45
Max Horsepower @ rpm			
Max Torque, lb-ft @ rpm	197 % 2000(1)		234 @ 2200(1)
Max bmep, lb/sq ln	124.0 (1)	131.5 (1)	131.5 (1)
Head Material	Cast Iron	Cast Iron	Cast Iron
Compression Ratio	7.7 (2)	7.7 (3)	7.7 (3)
Piston Material		Cast Iron	Cast Iron
Bearing Material	Th	in Babbitt On S	Steel
IGNITION			
Spark Plug-Factory Eqpt	AC 44-5	AC 44-5	AC 44-5
Alternate	AL A	7 or AR8, Cha	
Spark Plug Gap	.025"	.025"	.025"
Breaker Gap	016"	.025"	,016"
Cam Angle	21° to 30°	21° to 30°	21° 10 30°
Firing Order			-8-3-7-4
TimingCrankshaft Degrees	3° BTC	3° BTC (4)	
Adv DegCentrif Vac	22-24 (5)	99,99	22-22
Adv Begins-Ends Eng rpm	600-3900 (5)	500-3850	500-3850
Battery-Volts, Terminal Ground		6. Negative	
	0. 1	o, me Barrice	O. MI BULLIVE
VALVES	201-1-20	G. 1 MD 01	10 0110
Make and MaterialInt		Steel or TP 31-	
Exh	Ric	h 2112 or TP S	II XB
Tappet Cir-Seat AngleInt	.0	11" to .013" H,	30
Exh		11" to .013" H,	
Exhaust Seat Inserts	None	None	None
CARBURETOR			
Make, Model	Car WCD-2010	-S Car W	CD-2122-S
Type	Dual DD	Dual DD	Dual DD
Float Level	5/32" (6)	3/16" (6)	
Choke Control	Automatic	Automatic	Automatic
CAPACITY			
Oil(qt)	5 Refill	5 Refill	5 Refill
Water(qt)		18.8 (7)	18.8 (7)
Transmission(pt)		1-3/4 (8)	1-3/4 (8)
Rear Axle(pt)	3-1/4	3-1/4	3-1/4
Gasoline (gal)	20 (9)	20 (9)	20 (9)
GENERAL DATA (Four-Door Sed	lan)		
Wheelbase(in)	122	122	124
Over All Lgth Incl Bumpers (in)	202.272	202-2/2	213-2/3
Shipping Weight(lb)	3301 (10)	3451 (10)	3536 (10)
Tire Size—Recm Press,(lb)	3331 (10)	7.10×15-24-24 (1	
Rear Axle Ratio -Type	3 08 Hen	3 08 Hyp	3 23 Hyp
LOCATION_CHASSIS SERIAL NO	O Le	ft Front_Pillar	14051
(1) Power data given for 7.7 con	apression ratio	which is standa	rd on all Hydra-
Matic equipped cars.			
10. P () compression such a stand	land with Ernel	hen Stock tenne	TTO CELLARD

(2) 70 compression ratio standard with Synchro-Mesh transmission.
(3) 6.8 compression ratio standard with Synchro-Mesh transmission.
(4) 6° BTC with 6.8 compression ratio.
(5) Data shown for 7.7 compression ratio. For 7.0 advance begins 6° 800 rpm—maximum centrifugal is 23° 3° 3600 rpm—maximum vacuum advance 24°.
(6) Bowl cover to seam of float with bowl cover assembly inverted.
(7) 1.8 quarts additional with heater.

(8) Hydra-Matic transmission requires 11 quarts for refill.

(9) 16 gallons capacity for station wason.
(10) 120 pounds additional when equipped with Hydra-Matic transmission.
(11) 7.60x15 tires optional.

			STUDEBAKER
	Champion	Commander	Land Cruiser
CAR MODEL	15G	5H	5HY_
ENGINE			
No. Cyl-Head Type	6-L	V-8-I	V-8-I
Bore and Stroke (in)		3-3/8x3-1/4	3-3/8x3-1/4
Displacement (cu in)		232.6	232.6
AMA Horsepower	21.6	36.4	36.4
Max Horsepower @ rpm	85 4 4000	127 @ 4000	127 @ 4000
Max Torque, lb-ft @ rpm		202 @ 2000	202 @ 2000
Max bmep, lb/sq in	, 122.8	130.8	130.8
Head Material		Cast Iron 7.5	Cast Iron
Compression Ratio		7.5 AA	7.5 AA
Bearing Material		Backed Babbi	
_	LJ CC C	District District	Et Billett
IGNITION	Champ 2.7	Champ II 11	Ob 22 11
Spark Plug-Factory Eqpt	AC 44 AT AS	Champ n-11	Champ H-11
Spark Plug Gap		.035" AC 45	.035"
Breaker Gap	020"	.035"	.013"
Cam Angle	38° to 40°	28° to 34°	
Firing Order			3-6-5-7-2
Timing-Crankshaft Degrees	2º BTC	4° BTC	4° BTC
Adv Deg-Centrif-Vac	14-18	32-16	32-16
Adv Begins-Ends-Eng rpm	800-2800	600-2900	600-2900
Battery-Volts, Terminal Ground	6. Positive	6. Positive	6. Positive
VALVES			
Make and Material In		Caton Chrome	
	1 2112	2112N	2112N
Tappet Clr-Seat AngleIn	.016" C, 45"	.021" 1	o .023" H. 45°
	1 .016" C, 45°	None .021"	to .023" H, 45°
Exhaust Seat Inserts	None	None	None
CARBURETOR	O Proper 000		
Make, Model	. Car WEZIUSS (Distrom WW	Strom WW
Type	3 /8 /21	Dual DD	Dual DD
Choke Control	Automotic	Automatic	Automatic
	, miconificate	and and and and	MANAGEMENT
CAPACITY Oil(qt)	5 Defit	6 Refill	R Defill
Water(qt)	10	17-1/4	6 Refill 17-1/4
Transmissionpt	16 (4)	2.4 (4)	2.4 (4)
Rear Axle	2-1/2	3	3
Gasoline(ga)	18	18	18
GENERAL DATA (Four-Door Se			
Wheelbase		116-1/2 (5)	120-1/2
Over All Leth Incl Bumpers (in		198-5/8	202-5/B
Shipping Weight(lb)		3105	3180
Tire Size-Reem Press(lb)	6.40x15-20-24		5-26-22
Rear Axle Ratio-Type			4.09 (7)
LOCATION CHASSIS SERIAL N			
	2000	TO COOL STATIST	F 20052 1 1/3C

(1) Car WE989S on early production cars.
(2) Between boss on bowl cover and far edge of float seam.
(3) Place float level gage J-5475 on carburetor body across center of float while holding the float lip firmly against the needle valve.
(4) 2.75 with overdrive on Champion, 3.4 with overdrive on V-8's. Automatic transmission requires 9.5 quarts.
(5) 120-1/2 wheelbase for all 2-door coupes, including hardtops.
(6) 4.56 with overdrive, 4.1 with automatic transmission.
(7) 4.27 with overdrive, 3.54 with automatic transmission.

WILLYS		
CAR MODEL	685B	6-226
ENGINE		
No. Cyl-Head Type	6-F	6-L
Bore and Stroke (in)	3-1/8x3-1/2	3-5/16x4-3/8 226.2
Displacement (cu in)		26.33
Max Horsepower @ rpm		115 % 3650
Max Torque, lb-ft @ rpm	135 % 2000	190 % 1800
Max bmep, lb/sq in	126.4	126.6
Head Material	Cast Iron	Cast Iron
Compression Ratio		AA
Bearing Material		Babbitt Lined
IGNITION		
Spark Plug-Factory Eqpt	Champ J-8	Champ J-8
Alternate		AC-45, AL A7
Spark Plug Gap	.030"	.030"
Breaker Gap	30°-+3	39°±3
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4
Timing-Crankshaft Degrees	5°BTC	5°BTC
Adv Deg-Centrif-Vac		18-12
Adv Begins-Ends-Eng rpm Battery-Volts, Terminal Ground		600-3350 6. Negative
	o. Negative	d. Negative
VALVES Make and MaterialInt	ATST 5150	Sil No. 1
Exh	Various 2112	Stainless Steel 2112
Tappet Clr-Seat Angle Int	.018"C, 45°	.014"C. 30"
Exh	.016"C, 45°	.014"C, 45°
Exhaust Seat Inserts	None	None

. Carter 2071F

1-1/4" Sgl DD 9/32" (1)

LOCATION CHASSIS SERIAL NO Left Front Door Pillar (1) From top of float to bottom surface of float bowl cover without gasket. (2) One quart additional with heater.

(3) 3/4 pint additional with overdrive.

(qt) 11

Transmission (pt) 1-1/2 (3)
Rear Axle (pt) 2-1/3
Gasoline (gal) 18
GENERAL DATA (Four-Door Sedan)

Wheelbase (in) 108
Over All Light Incl Bumpers (in) 180-7/8

Over All Edit Met Sampers (1b) 2588

Tire Size—Reem Press (1b) 6.40x15-24-24

Rear Axle Ratio—Type. 4.1 Hyp (5)

CARBURETOR

CAPACITY

Water

O11

Make, Model ..

Choke Control Manual

(4) Ace, four-door sedan, standard transmission.

.....(qt) 5

(5) Overdrive. 3.54 conventional transmission. 3.31 automatic transmission.

Carter WGD

Dual DD

13 (2) 2-1/2 2-1/2

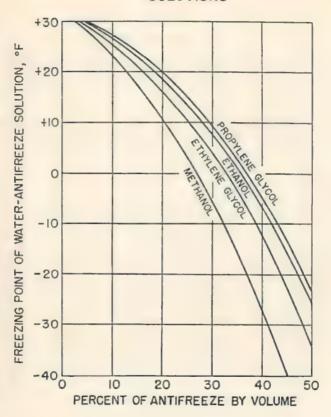
18

108

2778 (4) 6.40x15 4.1 Hyp (5)

Automatic

FREEZING POINTS OF WATER-ANTIFREEZE SOLUTIONS



AUTOMATIC AND SEMI-AUTOMATIC TRANSMISSIONS

Overdrive (Borg Warner Corporation)

Available on DeSoto, Dodge, Ford, Hudson, Henry J, Kaiser, Mercury, Nash, Packard, Plymouth, Studebaker and Willys. It consists of a planetary gearset and one-way clutch used behind a conventional three-speed transmission. The shift is controlled electrically according to car speed and is actuated by the accelerator. The driving ratio reduction is 30%.

Hydra-Matic (Detroit Transmission Division GMC)

Available on Cadillac, Hudson Jet models, Kaiser, Lincoln, Nash, Oldsmobile, Pontiac and Willys. This transmission consists of a fluid coupling with three planetary gearsets providing four forward speeds and reverse. The shifts are automatic and vary with car speed and accelerator position. Ratios are as follows: first, 3.82:1; second, 2.63:1; third, 1.45:1; fourth, 1:1.

Gyro-Matic (Chrysler Corporation)

Used on Dodge. It consists of a semi-automatic four-speed constantmesh transmission with a fluid coupling and a dry-disc clutch. Either of two forward ranges are selected manually when the foot clutch is disengaged. Shifting between the two ratios in each speed range is controlled by the accelerator pedal at the driver's option at speeds above governor speed. Ratios are as follows: first, 3.57:1; second, 2.04:1; third, 1.75:1; fourth, 1:1.

Dynaflow (Buick)

The Dynaflow transmission consists of a four-element torque converter and a multiple pinion planetary gearset providing low and reverse ratios. The two turbine elements of the converter are interconnected through a planetary gearset of 1.6:1 ratio. The maximum torque multiplication of the converter is 2.45:1 and no additional gearing, other than the internal gearing between the turbines, is used for normal forward driving. The drive is always through the converter. Low range 1.82:1 gear ratio can be manually engaged at any throttle position for extra pulling power and engine braking.

Ultramatic (Packard)

This transmission is composed of a four-element torque converter (one pump, two turbine members and a stator), a multiple pinion planetary transmission to provide low and reverse, and a direct drive clutch. The maximum torque multiplication of the converter is 2.4:1 and it is used only for accelerating. The direct drive clutch locks the pump and turbine together into a solid drive for part throttle operation. The shift to direct drive is controlled automatically by the car speed and accelerator position. Low range (1.82:1 gear ratio) can be manually engaged for extra power or engine braking.

Powerglide (Chevrolet)

This transmission consists of a three-element torque converter with a multiple pinion planetary gearset providing low and reverse ratios. The drive is always through the converter which has a maximum torque multiplication of 2.1:1. Normal drive starts through the torque con-

verter and low gear ratio (1.82:1) and automatically shifts to converter only, depending on throttle opening and car speed. The transmission can be manually locked in low range for extra pulling power and engine braking.

Studebaker Automatic Transmission

This transmission has a three-element torque converter, a direct drive clutch and two planetary gearsets providing three forward speeds and reverse. In the six-cylinder model cars normal drive starts through the torque converter in low gear, shifts to intermediate gear ratio and torque converter and then shifts to solid direct drive depending on car speed and throttle opening. In the V-8 models the drive starts through the torque converter in intermediate gear and shifts to solid direct drive. Low range can be manually engaged for extra pulling power or engine braking. The torque converter has a maximum ratio of 2.15 and the gear ratios are as follows: first, 2.31:1; second, 1.43:1; third, 1:1.

Fordomatic and Merc-O-Matic (Ford and Mercury)

This transmission is composed of a three-element torque converter and a multiple pinion planetary gear system to produce three forward speeds and reverse. The drive is always through the converter which has a maximum torque multiplication of 2.1:1. Normal drive starts through the torque converter and intermediate gear ratio (1.48:1) and automatically shifts to converter cnly, depending on throttle opening and car speed. Low range (2.44:1 gear ratio) can be manually engaged for extra pulling power or engine braking.

Hy-Drive (Chrysler Corporation)

This transmission is used on the Plymouth. It consists of a four-element torque converter with a constant-mesh three-speed transmission. The torque converter has a maximum torque multiplication of 2.6:1 and the drive is always through the converter. Ratios used in this transmission with the torque converter are: first, 2.37:1; second, 1.68:1; third, 1:1.

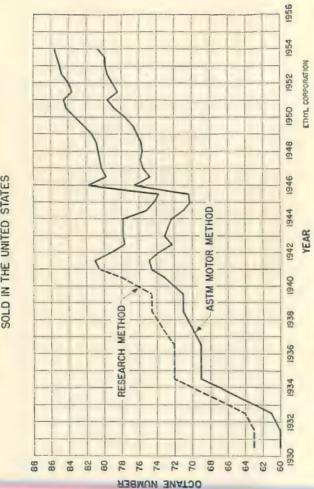
PowerFlite (Chrysler Corporation)

This transmission is used on Chrysler, DeSoto and Dodge in both V-8 and six-cylinder cars. It consists of a four-element torque converter and two planetary gearsets providing low and reverse ratios. The drive is always through the converter which has a maximum torque multiplication of 2.6:1. Normal drive starts through the torque converter and low gear ratio (1.72:1) and automatically shifts to converter only, depending on throttle opening and car speed. The transmission can be manually locked in low range for extra pulling power and engine braking.

Hudson Automatic Transmission

This transmission which is used on Hudson Wasp and Hornet models has a three-element torque converter, a direct drive clutch and two planetary gearsets providing three forward speeds and reverse. Normal drive starts through the torque converter in low gear, shifts to intermediate gear ratio and torque converter, and then shifts to solid direct drive, depending on car speed and throttle opening. Low range can be manually engaged for extra pulling power or engine braking. The torque converter has a maximum ratio of 2.1:1. The gear ratios are as follows: first, 2.31:1; second, 1.44:1; third, 1:1.

TREND IN ANTIKNOCK QUALITY OF REGULAR GASOLINES SOLD IN THE UNITED STATES



TREND IN ANTIKNOCK QUALITY OF PREMIUM GASOLINES SOLD IN THE UNITED STATES

